

- (a) Met-Gly-Thr or Met-Val-Asp (linker X);
- (b) a partial amino acid sequence of myosin light chain kinase protein Ser-Ser-Arg-Arg-Lys-Trp-Asn-Lys-Thr-Gly-His-Ala-Val-Arg-Ala-Ile-Gly-Arg-Leu-Ser-Ser) [SEQ ID NO:6];
- (c) Leu-Glu (linker Y);
- (d) the amino acid sequence from the 149th to 238th position of green fluorescent protein;
- (e) Gly-Gly-Thr-Gly-Gly-Ser (linker amino acid sequence; amino acids 117 to 122 of SEQ ID NO:8);
- (f) the amino acid sequence from the 1st to 144th position of green fluorescent protein;
- (g) Gly-Thr-Arg or Thr-Arg (linker Z); and
- (h) the amino acid sequence from the 2nd to 148th position of rat calmodulin protein.--
--33. (Amended) A biosensor protein comprising the following sequences (a) to (g) sequentially from the N terminus:
 - (a) the amino acid sequence from the 1st to 144th position of green fluorescent protein;
 - (b) Gly-Thr-Arg (linker A);
 - (c) the amino acid sequence from the 2nd to 148th position of rat calmodulin protein;
 - (d) Gly-Thr or [Gly-Thr-Gly-Ser-Gly-Gly-Ser] (linker B; SEQ ID NO:17);
 - (e) a partial amino acid sequence of myosin light chain kinase protein (Ser-Ser-Arg-Arg-Lys-Trp-Asn-Lys-Thr-Gly-His-Ala-Val-Arg-Ala-Ile-Gly-Arg-Leu-Ser-Ser) [SEQ ID NO:6];
 - (f) Thr-Ser (linker C); and